

# WEST Search History for Application 10576224

Creation Date: 2010061707:31

"ISHIKAWA, TADASHI".in.PGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
"INOUE, TAKEHIRO".in.PGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
"SHIMANUKI, HIROSHI".in.PGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
"KOSEKI, TADASHI".in.PGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
"OTANI, JUN".in.PGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
"MINAGAWA, MASANORI".in.PGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
"KOJIMA, AKIHIKO".in.PGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
("KOJIMA, AKIHIKO".in. ) or ("MINAGAWA, MASANORI".in. ) or ("OTANI, JUN".in. ) or  
("KOSEKI, TADASHI".in. ) or ("SHIMANUKI, HIROSHI".in. ) or ("INOUE, TAKEHIRO".in. ) or  
("ISHIKAWA, TADASHI".in. )PGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
weld or welded or weldingPGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
(weld or welded or welding )PGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
weld or welded or weldingPGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
fracture near2 toughnessPGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
haz or (heat adj (input or affected)) or (fusion near2 lines)PGPB, USPT, EPAB, JPAB,  
DWPI OR YES 09-28-2008  
(steel or sus) near3 (sheet or plate)PGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
( ((steel or sus) near3 (sheet or plate) ) with (weld or welded or welding ) ) same (fracture  
near2 toughness ) same (haz or (heat adj (input or affected)) or (fusion near2 lines) )PGPB,  
USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
( (weld or welded or welding ) with (haz or (heat adj (input or affected)) or (fusion near2 lines)  
 ) ) same ("KOJIMA, AKIHIKO".in. or "MINAGAWA, MASANORI".in. or "OTANI, JUN".in. or  
"KOSEKI, TADASHI".in. or "SHIMANUKI, HIROSHI".in. or "INOUE, TAKEHIRO".in. or  
"ISHIKAWA, TADASHI".in. )PGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
( (weld or welded or welding ) with (haz or (heat adj (input or affected)) or (fusion near2 lines)  
 ) ) and ("KOJIMA, AKIHIKO".in. or "MINAGAWA, MASANORI".in. or "OTANI, JUN".in. or  
"KOSEKI, TADASHI".in. or "SHIMANUKI, HIROSHI".in. or "INOUE, TAKEHIRO".in. or  
"ISHIKAWA, TADASHI".in. )PGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
((weld or welded or welding with haz or (heat adj (input or affected)) or (fusion near2 lines) )  
and "KOJIMA, AKIHIKO".in. or "MINAGAWA, MASANORI".in. or "OTANI, JUN".in. or  
"KOSEKI, TADASHI".in. or "SHIMANUKI, HIROSHI".in. or "INOUE, TAKEHIRO".in. or  
"ISHIKAWA, TADASHI".in. ) and (hardness or (haz or (heat adj (input or affected)) or (fusion  
near2 lines) ))PGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
((weld or welded or welding with haz or (heat adj (input or affected)) or (fusion near2 lines) )  
and "KOJIMA, AKIHIKO".in. or "MINAGAWA, MASANORI".in. or "OTANI, JUN".in. or  
"KOSEKI, TADASHI".in. or "SHIMANUKI, HIROSHI".in. or "INOUE, TAKEHIRO".in. or  
"ISHIKAWA, TADASHI".in. ) and (hardness same (weld or welded or welding ) )PGPB, USPT,  
EPAB, JPAB, DWPI OR YES 09-28-2008  
((steel or sus) near3 (sheet or plate) ) same (fracture near2 toughness ) same (weld or welded  
or welding ) same (haz or (heat adj (input or affected)) or (fusion near2 lines) ) same  
(hardness or hv)PGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
((steel or sus) near3 (sheet or plate) ) with (weld or welded or welding )PGPB, USPT, EPAB,  
JPAB, DWPI OR YES 09-28-2008  
((steel or sus) near3 (sheet or plate) with weld or welded or welding ) same (hardness or  
hv)PGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008  
((steel or sus) near3 (sheet or plate) with weld or welded or welding same (hardness or hv) )

same ( (fracture near2 toughness ) or (haz or (heat adj (input or affected)) or (fusion near2 lines) ) )PGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008

((steel or sus) near3 (sheet or plate) with weld or welded or welding same (hardness or hv) same (fracture near2 toughness or haz or (heat adj (input or affected)) or (fusion near2 lines) ) .ti, ab, clm.PGPB, USPT, EPAB, JPAB, DWPI OR YES 09-28-2008

((steel or sus) near3 (sheet or plate) with weld or welded or welding same (hardness or hv) same (fracture near2 toughness or haz or (heat adj (input or affected)) or (fusion near2 lines) ) .ti, ab, clm. ) not ((weld or welded or welding with haz or (heat adj (input or affected)) or (fusion near2 lines) ) and "KOJIMA, AKIHIKO".in. or "MINAGAWA, MASANORI".in. or "OTANI, JUN".in. or "KOSEKI, TADASHI".in. or "SHIMANUKI, HIROSHI".in. or "INOUE, TAKEHIRO".in. or "ISHIKAWA, TADASHI".in. and (hardness same weld or welded or welding ) )PGPB, USPT,

EPAB, JPAB, DWPI OR YES 09-28-2008

(2001073071 or 2003328080 or 2003105442 or 2002161329 or 2002317241).pn.JPAB,  
DWPI OR YES 09-28-2008

## Prior Art Searches

Query	DB	Op.	Plur.	Thes.	Date
(weld or welding or welded)	PGPB, USPT, EPAB, JPAB, DWPI	OR	YES		06-17-2010
(butt or lap) with ((weld or welding or welded) )	PGPB, USPT, EPAB, JPAB, DWPI	OR	YES		06-17-2010
steel near4 plate	PGPB, USPT, EPAB, JPAB, DWPI	OR	YES		06-17-2010
(large or high) near2 (heat or laser or Kj)	PGPB, USPT, EPAB, JPAB, DWPI	OR	YES		06-17-2010
hardness or Hv	PGPB, USPT, EPAB, JPAB, DWPI	OR	YES		06-17-2010
thick or (50 or 70)	PGPB, USPT, EPAB, JPAB, DWPI	OR	YES		06-17-2010
(thick or (50 or 70) ) with (steel near4 plate )	PGPB, USPT, EPAB, JPAB, DWPI	OR	YES		06-17-2010
(thick or (50 or 70) with steel near4 plate ) same ((butt or lap) with (weld or welding or welded) )	PGPB, USPT, EPAB, JPAB, DWPI	OR	YES		06-17-2010
(thick or (50 or 70) with steel near4 plate same	PGPB, USPT,	OR	YES		06-17-2010

(butt or lap) with (weld or welding or welded) ) same ((large or high) near2 (heat or laser or Kj) )	EPAB, JPAB, DWPI				
(thick or (50 or 70) with steel near4 plate same (butt or lap) with (weld or welding or welded) ) and ((large or high) near2 (heat or laser or Kj) )	PGPB, USPT, EPAB, JPAB, DWPI	OR	YES		06-17-2010